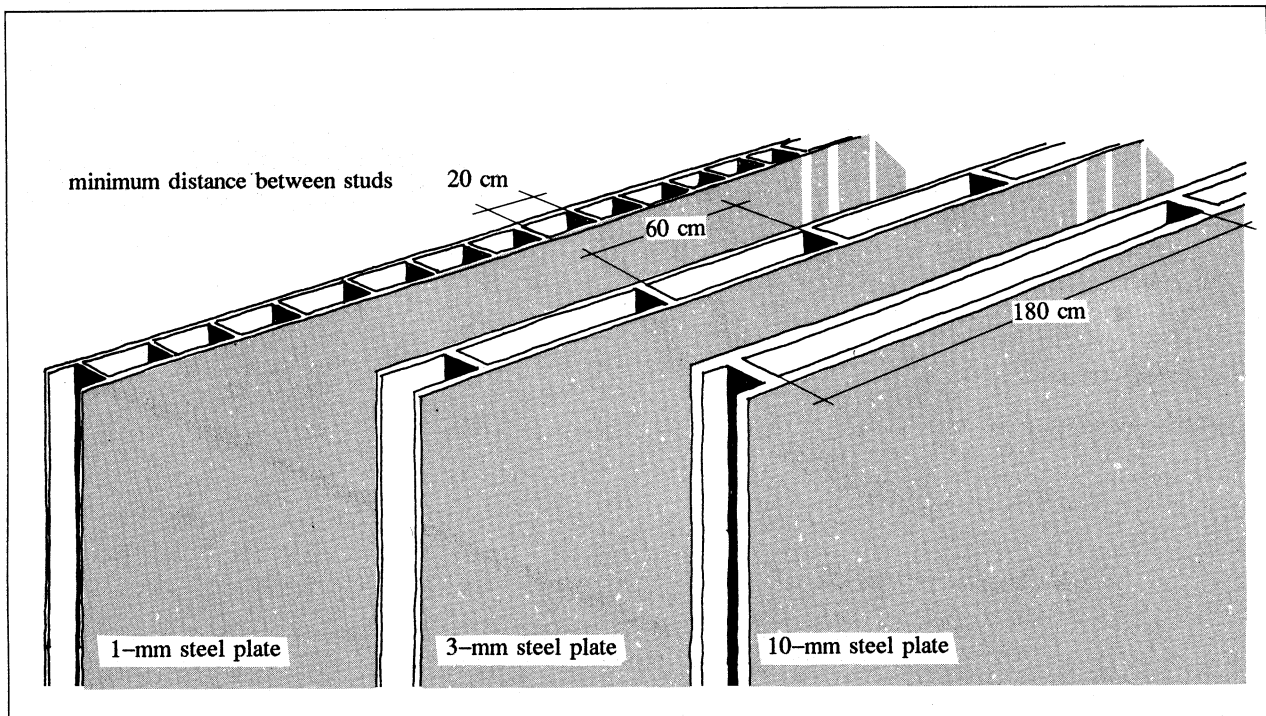


DOUBLE WALLS SHOULD HAVE FEW CONNECTIONS

A double wall provides the best TL if each layer is connected to the heavy walls or if there are open joints on both ends. If the layers are fastened to common studs, the TL is greatly reduced if the studs are close together. The thicker the layers, the farther apart the studs must be in order to avoid substantial reduction of TL.

Principle



Application to a Control Room

Example

The control room for a machine in a paper mill is noisy, and telephone conversations are practically impossible.

Control Measure

A well-insulated room is built with thin panels on common studs. The floor of the room is vibration isolated from the floor of the factory.

